

## FALLOUT PREDICTION WORKSHEET-SURFACE BURST

For use of this form, see FM 3-3-1; the proponent agency is TRADOC

a. Time of burst (date-time group)		DELTA DDtttt (local or ZULU)
b. GZ Coordinates		FOXTROT yyzzzzzz (actual or estimated)
c. FT/TY Ratio (from target analyst for friendly weapons only)		
d. HOB (from target analyst for friendly weapons only)		meters
e. Yield		KT or MT
f. Cloud-top Height (Fig. 4-3)		10 <sup>3</sup> meters or feet
g. Cloud-bottom Height (Fig. 4-3)		10 <sup>3</sup> meters or feet
h. 2/3 Stem Height (Fig. 4-3)		10 <sup>3</sup> meters of feet
i. Stabilized Cloud Radius (Fig. 4-3)		ZULU rr (km)
j. Time of Fall from Cloud Bottom (Fig. 4-3)		hours
Fallout Wind Vector Plot (Enter f, g, and h radial lines on wind vector plot and measure distance from GZ to cloud-bottom height)		
k. Radial Line Distance from GZ to Cloud-Bottom Height		km
l. Effective Wind Speed = $\frac{k \text{ (GZ to CB dist)}}{j \text{ (Time of fall)}}$		$\frac{\text{km}}{\text{hr}}$ = ZULU sss (kmph)
m. Downwind Distance of Zone 1 (Enter Fig. 4-7 with i and e)		km
n. Adjustment = FY/TY Factor $\frac{\text{ }}{\text{ (Enter Fig. 4-8 with e and c or use a 1) }}$ x HOB Factor $\frac{\text{ }}{\text{ (Enter Fig. 4-9 or 4-10 with d and e or use a 1) }}$		=
o. Adjusted Downwind Distance of Zone I (m x n)		ZULU xxx (km)
Fallout Wind Vector Plot (Check lateral limits for 40 degrees)		
p. Azimuth of Left Radial Line		YANKEE dddd (mils or degrees)
q. Azimuth of Right Radial Line		YANKEE cccc (mils or degrees)
r. NBC 3 Nuclear		
ALFA AAA		(Strike Serial Number)
DELTA DDtttt		(Local or ZULU)
FOXTROT yyzzzzzz		(GZ coordinates - actual or estimated)
YANKEE ddddcccc		(Azimuths or radial lines - mils or degrees)
ZULU sssxxxrr		
	(effective wind speed)	(downwind distance) (cloud radius)